

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 08102241  
PUBLICATION DATE : 16-04-96

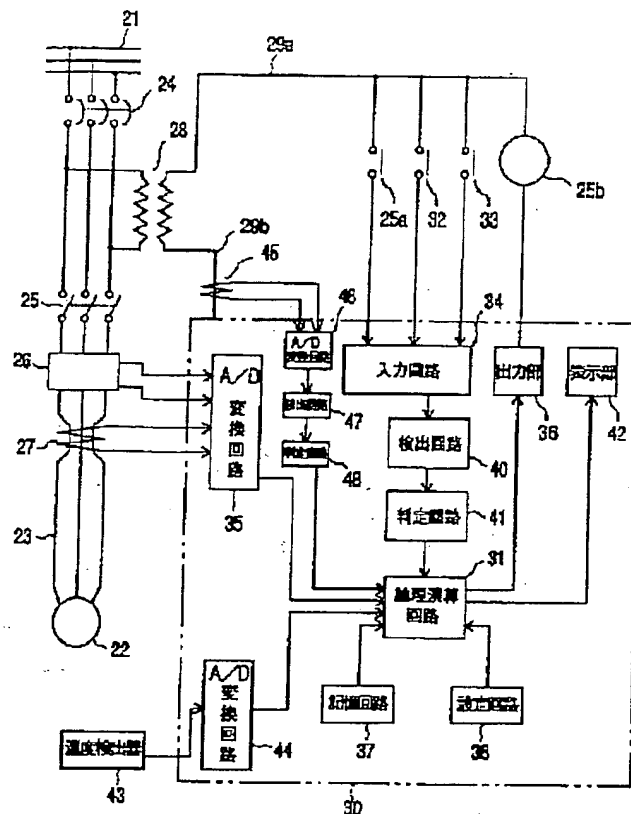
APPLICATION DATE : 30-09-94  
APPLICATION NUMBER : 06236260

APPLICANT : TOSHIBA CORP;

INVENTOR : AKAHA TSUTOMU;

INT.CL. : H01H 47/00

TITLE : LOAD CONTROL APPARATUS



ABSTRACT : PURPOSE: To predict the load of such as an electric motor, etc., and the maintenance timing of appliances such as electromagnetic contactors, etc., to presume the deterioration condition, and predict trouble occurrence in order to simplify maintenance work.

CONSTITUTION: First detection means 34, 40, 41 to detect the open or close state of an electromagnetic contactor 24, second detection means 46-48 to detect the alteration of load current as the lapse of time obtained from a current transformer 26, and third detection means 43, 44 to detect the temperature in a unit apparatus are installed in a load control apparatus. The load current value, the operating hours of the electromagnetic contactor, and the temperature of the unit apparatus from the first to the third detection means are taken in a theoretically computing circuit 31 of a control part 30 and predicted life of the electromagnetic contactor 24 is calculated based on, for example, Arrhenius's equation and the calculation result is sent out and displayed.

COPYRIGHT: (C)1996,JPO

BEST AVAILABLE COPY